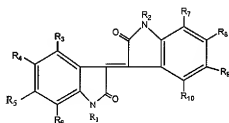


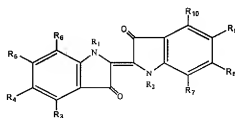
**AMENDMENTS TO THE CLAIMS**

Please replace all prior versions, and listings, of the claims in the application with the following amended listing of claims:

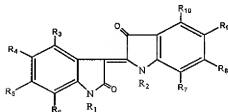
1. (Currently Amended) A method of treating an inflammatory-related disease associated with cytokine expression levels, which comprises administering to an animal in need of such treatment at least one compound of formula (I), (II) or (III)



**FORMULA (I)**



**FORMULA (II)**



**FORMULA (III)**

wherein the compound is administered in an amount sufficient to treat the inflammatory-related disease by inhibiting pro-inflammatory cytokine expression or by stimulating anti-inflammatory cytokine expression, but the amount is less than sufficient to substantially inhibit cyclin dependent kinases;

R<sub>3</sub>, R<sub>4</sub>, R<sub>5</sub>, R<sub>6</sub>, R<sub>7</sub>, R<sub>8</sub>, R<sub>9</sub>, and R<sub>10</sub> are the same or different and represent a hydrogen atom; a hydroxy group; a nitroso group; a nitro group; a monosaccharide; a disaccharide; a halogen atom; a hydrocarbyl group, or a functional hydrocarbyl group unsubstituted or substituted with one or more hydroxy moieties, carboxy moieties, nitroxy moieties, monosaccharides, disaccharides, amines, amides, thiols, sulfates, sulfonates, sulfonamides or halogens, wherein the hydrocarbyl has 1 to 8 carbon atoms; a -R<sub>11</sub>R<sub>12</sub> group, wherein R<sub>11</sub> and R<sub>12</sub> can be the same or different and represent a hydrogen atom, a straight-chain or branched-chain alkyl group having 1 to 18 carbon atoms which can additionally carry one or more hydroxy and/or amino groups, a substituted or unsubstituted aryl group which can comprise one or more heteroatoms, or an acyl group, or R<sub>11</sub> and R<sub>12</sub> form together a ring having 2 to 6, optionally substituted, CH<sub>2</sub> groups; an azo group -N=N-R<sub>13</sub>, wherein R<sub>13</sub> represents an aromatic system which can be substituted by one or more carboxyl groups and/or phosphoryl groups, or a group selected from the group consisting of sugars, amino acids, peptides or steroid hormones; or R<sub>1</sub> and R<sub>6</sub>, and R<sub>2</sub> and R<sub>7</sub>, respectively, form independently from each other a ring together having 1 to 4, optionally substituted, CH<sub>2</sub> groups; and

R<sub>1</sub> and R<sub>2</sub> are the same or different and represent a hydrogen atom; a halogen atom; a hydroxy group; a hydrocarbyl group, or a functional hydrocarbyl group unsubstituted or substituted with one or more hydroxy moieties, carboxy moieties, nitroxy moieties, monosaccharides, disaccharides, amines, amides, thiols, sulfates, sulfonates, sulfonamides or halogens, wherein the hydrocarbyl has 1 to 8 carbon atoms; a mono-, di- or trialkylsilyl group having 1 to 6 carbon atoms independently of each other in each instance in the straight-chain or branched-chain alkyl group; a mono-, di- or triarylsilyl group with substituted or unsubstituted aryl groups independently of each other in each instance; a -NR<sub>17</sub>R<sub>18</sub> group, wherein R<sub>17</sub> and R<sub>18</sub> can be the same or different and represent a hydrogen atom, a straight-chain or branched-chain alkyl group having 1 to 18 carbon atoms which can additionally carry one or more hydroxy and/or amino groups, a substituted or unsubstituted aryl group which can comprise one or more heteroatoms, or an acyl group; a methyleneamino group -CH<sub>2</sub>-NR<sub>17</sub>R<sub>18</sub>, wherein R<sub>17</sub> and R<sub>18</sub> have

the above definitions; a physiological amino acid residue bound to the nitrogen as an amide, substituted or unsubstituted monosaccharide, disaccharides or oligosaccharides; or a sugar, amino acid, peptide or steroid hormone; wherein the disease is selected from the group consisting of ~~arthritis~~, arthritis, rheumatoid arthritis, an inflammatory bowel disease; multiple sclerosis; stroke; kidney failure; lupus; pancreatitis; allergy; fibrosis; anemia; ~~atherosclerosis~~; a metabolic disease; a bone disease; a chemotherapy/radiation related complication; diabetes type I; diabetes type II; a liver disease; a gastrointestinal disorder; an ophthalmological disease; allergic conjunctivitis; diabetic retinopathy; Sjogren's syndrome; uveitis; a pulmonary disorder; dermatitis; HIV-related cachexia; cerebral malaria; ankylosing spondylitis; leprosy; anemia; fibromyalgia; and Parkinson disease.

2. (Original) The method according to claim 1, wherein at least R<sub>1</sub> or R<sub>2</sub> is a monosaccharide, a disaccharide unsubstituted or substituted with one or more hydroxy moieties or carboxy moieties; a halogen; a hydrocarbyl group, or a functional hydrocarbyl group unsubstituted or substituted with one or more hydroxy moieties, carboxy moieties, nitroxy moieties, monosaccharides, disaccharides, amines, amides, thiols, sulfates, sulfonates, sulfonamides or halogens, wherein the hydrocarbyl has 1 to 8 carbon atoms.

3. (Original) The method according to claim 2, wherein at least R<sub>1</sub> or R<sub>2</sub> is a group that increases the solubility of the compound.

4. (Withdrawn) The method according to claim 2, wherein at least R<sub>1</sub> or R<sub>2</sub> is a tri-acetylated monosaccharide.

5. (Original) The method according to claim 2, wherein at least R<sub>1</sub> or R<sub>2</sub> is a methyl group.

6. (Withdrawn) The method according to claim 5, wherein R<sub>1</sub> or R<sub>2</sub> is an acetylated monosaccharide.

7. (Original) The method according to claim 1, wherein the animal is a human being.

8. (Original) The method according to claim 1, wherein at least two of the compounds are administered concurrently or sequentially.

9. (Original) The method according to claim 1, wherein the compound is administered in combination with an anti-inflammatory agent.

10. (Original) The method according to claim 9, wherein the anti-inflammatory agent is selected from the group consisting of: an analgesic; an antirheumatic agent; an gastrointestinal agent; a gout preparation; glucocorticoids; ophthalmic preparation; respiratory agent; a nasal preparation; and a mucous membrane agent.

11. (Original) The method according to claim 10, wherein the analgesic is selected from the group consisting of: naproxen, indomethacin, ibuprofen, ketorolac tromethamine, choline magnesium trisalicylate and rofecoxib; the antirheumatic agent is selected from the group consisting of: cyclosporine, sulfasalazine, valdecoxib, penicillamine and dexamethasone; the gastrointestinal agent is selected from the group consisting of: mesalamine, balsalazide disodium and olsalazine sodium; the gout preparation is sulindac; the glucocorticoid is selected from the group consisting of: dexamethasone, dexamethasone phosphate, methylprednisolone acetate, hydrocortisone and hydrocortisone sodium phosphate; the nasal preparation is selected from the group consisting of beclomethasone dipropionate monohydrate, fluticasone propionate, triamcinolone acetonide, flunisolide, mometasone furoate monohydrate and budesonide; the ophthalmic preparation is ketorolac tromethamine; the respiratory agent is nedocromil sodium; and the mucous membrane agent is selected from the group consisting of: alclometasone dipropionate, hydrocortisone butyrate, flurandrenolide, betamethasone valerate and clobetasol propionate.

12. (Cancelled)

13. (Currently Amended) The method according to claim 1, wherein the neurodegenerative disorder is selected from the group consisting of: the inflammatory bowel disease is selected from the group consisting of: Crohn's disease or ~~un~~erative ulcerative colitis; the gastrointestinal complication is diarrhea; the liver disease is selected from the group

consisting of: an autoimmune hepatitis, hepatitis C, primary biliary cirrhosis, primary sclerosing cholangitis, or fulminant liver failure; the gastrointestinal disorder is selected from the group consisting of: celiac disease and non-specific colitis; and the pulmonary disorder is selected from the group consisting of: allergic rhinitis, asthma, chronic obstructive pulmonary disease, chronic granulomatous inflammation, cystic fibrosis, and sarcoidosis.

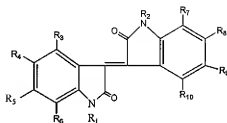
14. (Previously Presented) The method according to claim 13, wherein the disease is Crohn's disease or ulcerative colitis.

15-16. (Cancelled)

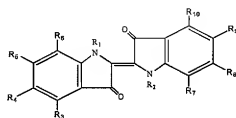
17. (Original) The method according to claim 1 wherein the compound is administered at a concentration sufficient to inhibit cytokine IL-1 $\alpha$ ,  $\beta$ , IL-2, IL-3, IL-6, IL-7, IL-9, IL-12, IL-17, IL-18, TNF- $\alpha$ , LT, LIF, Oncostatin, or IFN $\gamma$ 1 $\alpha$ ,  $\beta$ ,  $\gamma$ .

18. (Original) The method according to claim 1, where the compound is administered at a concentration sufficient to stimulate expression of cytokine IL-4, IL-10, IL-11, W-13 or TGF $\beta$ .

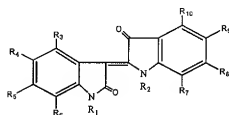
19. (Previously Presented) A method of treating an inflammatory-related disease associated with cytokine expression levels in an animal, wherein the inflammatory-related disease being treated is selected from the group consisting of: an inflammatory bowel disease, rheumatoid arthritis; lupus; a gastrointestinal complication; chemotherapy/radiation related complication; diabetes type I; diabetes type II; a liver disease; a gastrointestinal disorder; an ophthalmological disease; allergic conjunctivitis; diabetic retinopathy; Sjogren's syndrome; uveitis; a pulmonary disorder; dermatitis; HIV-related cachexia; cerebral malaria; ankylosing spondylitis; leprosy; arthritis; multiple sclerosis; stroke; kidney failure; pancreatitis; an allergy; fibrosis; anemia; and fibromyalgia, the method comprising administering to an animal in need of such treatment at least one compound of formula (I), (II) or (III)



**FORMULA (I)**



**FORMULA (II)**



**FORMULA (III)**

wherein the compound is administered in an amount sufficient to treat the cytokine-induced inflammatory-related disease;

$R_3$ ,  $R_4$ ,  $R_5$ ,  $R_6$ ,  $R_7$ ,  $R_8$ ,  $R_9$ , and  $R_{10}$  are the same or different and represent a hydrogen atom; a hydroxy group; a nitroso group; a nitro group; a monosaccharide; a disaccharide; a halogen atom; a hydrocarbonyl group, or a functional hydrocarbonyl group unsubstituted or substituted with one or more hydroxy moieties, carboxy moieties, nitroxy moieties, monosaccharides, disaccharides, amines, amides, thiols, sulfates, sulfonates, sulfonamides or halogens, wherein the hydrocarbonyl has 1 to 8 carbon atoms; a  $-R_{11}R_{12}$  group, wherein  $R_{11}$  and  $R_{12}$

can be the same or different and represent a hydrogen atom, a straight-chain or branched-chain alkyl group having 1 to 18 carbon atoms which can additionally carry one or more hydroxy and/or amino groups, a substituted or unsubstituted aryl group which can comprise one or more heteroatoms, or an acyl group, or  $R_{11}$  and  $R_{12}$  form together a ring having 2 to 6, optionally substituted,  $CH_2$  groups; an azo group  $-N=N-R_{13}$ , wherein  $R_{13}$  represents an aromatic system which can be substituted by one or more carboxyl groups and/or phosphoryl groups; or a group selected from the group consisting of sugars, amino acids, peptides or steroid hormones; or  $R_1$  and  $R_6$ , and  $R_2$  and  $R_7$ , respectively, form independently from each other a ring together having 1 to 4, optionally substituted,  $CH_2$  groups; and

$R_1$  and  $R_2$  are the same or different and represent a hydrogen atom; a halogen atom; a hydroxy group; a hydrocarbyl group, or a functional hydrocarbyl group unsubstituted or substituted with one or more hydroxy moieties, carboxy moieties, nitroxy moieties, monosaccharides, disaccharides, amines, amides, thiols, sulfates, sulfonates, sulfonamides or halogens, wherein the hydrocarbyl has 1 to 8 carbon atoms; a mono-, di- or trialkylsilyl group having 1 to 6 carbon atoms independently of each other in each instance in the straight-chain or branched-chain alkyl group; a mono-, di- or triarylsilyl group with substituted or unsubstituted aryl groups independently of each other in each instance; a  $-NR_{17}R_{18}$  group, wherein  $R_{17}$  and  $R_{18}$  can be the same or different and represent a hydrogen atom, a straight-chain or branched-chain alkyl group having 1 to 18 carbon atoms which can additionally carry one or more hydroxy and/or amino groups, a substituted or unsubstituted aryl group which can comprise one or more heteroatoms, or an acyl group; a methyleneamino group  $-CH_2-NR_{17}R_{18}$ , wherein  $R_{17}$  and  $R_{18}$  have the above definitions; a physiological amino acid residue bound to the nitrogen as an amide, substituted or unsubstituted monosaccharide, disaccharides or oligosaccharides; or a sugar, amino acid, peptide or steroid hormone.

20. (Currently Amended) The method according to claim 19, wherein the inflammatory bowel disease is Crohn's disease or ~~un~~erative ulcerative colitis; the gastrointestinal complication is diarrhea; the liver disease is selected from the group consisting of: an autoimmune hepatitis, hepatitis C, primary biliary cirrhosis, primary sclerosing cholangitis, or fulminant liver failure; the gastrointestinal disorder is selected from the group consisting of: celiac disease and non-specific colitis; and the pulmonary disorder is selected from

the group consisting of: allergic rhinitis, asthma, chronic obstructive pulmonary disease, chronic granulomatous inflammation, cystic fibrosis, and sarcoidosis.

21. (Withdrawn) The method according to claim 19, wherein at least R<sub>1</sub> or R<sub>2</sub> is a monosaccharide, a disaccharide unsubstituted or substituted with one or more hydroxy moieties or carboxy moieties; a halogen; a hydrocarbyl group, or a functional hydrocarbyl group unsubstituted or substituted with one or more hydroxy moieties, carboxy moieties, nitroxy moieties, monosaccharides, disaccharides, amines, amides, thiols, sulfates, sulfonates, sulfonamides or halogens, wherein the hydrocarbyl has 1 to 8 carbon atoms.

22. (Previously Presented) The method according to claim 20, wherein at least R<sub>1</sub> or R<sub>2</sub> is a group that increases the solubility of the compound.

23. (Withdrawn) The method according to claim 21, wherein at least R<sub>1</sub> or R<sub>2</sub> is an acetylated monosaccharide.

24. (Previously Presented) The method according to claim 20, wherein at least R<sub>1</sub> or R<sub>2</sub> is a methyl group.

25. (Original) The method according to claim 19, wherein at least two of the compounds are administered concurrently or sequentially.

26. (Original) The method according to claim 19, wherein the compound is administered in combination with an anti-inflammatory agent.

27. (Original) The method according to claim 26, wherein the anti-inflammatory agent is selected from the group consisting of: an analgesic; an antirheumatic agent; an gastrointestinal agent; a gout preparation; glucocorticoids; ophthalmic preparation; respiratory agent; a nasal preparation; and a mucous membrane agent.

28. (Original) The method according to claim 27, wherein the analgesic is selected from the group consisting of: naproxen, indomethacin, ibuprofen, ketorolac



tromethamine, choline magnesium trisalicylate and rofecoxib; the antirheumatic agent is selected from the group consisting of: cyclosporine, sulfasalazine, valdecoxib, penicillamine and dexamethasone; the gastrointestinal agent is selected from the group consisting of: mesalamine, balsalazide disodium and olsalazine sodium; the gout preparation is sulindac; the glucocorticoid is selected from the group consisting of: dexamethasone, dexamethasone phosphate, methylprednisolone acetate, hydrocortisone and hydrocortisone sodium phosphate; the nasal preparation is selected from the group consisting of beclomethasone dipropionate monohydrate, fluticasone propionate, triamcinolone acetonide, flunisolide, mometasone furoate monohydrate and budesonide; the ophthalmic preparation is ketorolac tromethamine; the respiratory agent is nedocromil sodium; and the mucous membrane agent is selected from the group consisting of: alclometasone dipropionate, hydrocortisone butyrate, flurandrenolide, betamethasone valerate and clobetasol propionate.

29. (Original) The method according to claim 19 wherein the compound is administered at a concentration sufficient to inhibit cytokine IL-1 $\alpha$ ,  $\beta$ , IL-2, IL-3, IL-6, IL-7, IL-9, IL-12, IL-17, IL-18, TNF- $\alpha$ , LT, LIF, Oncostatin, or IFN $\gamma$ 1 $\alpha$ ,  $\beta$ ,  $\gamma$ .

30. (Withdrawn) The method according to claim 19, where the compound is administered at a concentration sufficient to stimulate expression of cytokine IL-4, IL-10, IL-11, W-13 or TGF $\beta$ .

31-34. (Cancelled)